

## Claims

1.  
5 A Bag In Box (BIB) container [package] (10)  
- for flowable materials,  
including liquid, solid powders or particles -  
with an inner (contents) bag liner (12)  
locatable within an outer box carton (11)  
10 has a neck piece (14),  
between a bag neck (13) and carton aperture (24).
2.  
15 A container package, as in Claim 1,  
with a carton lid flap  
incorporating cuts, creases or folds  
to allow folding as an inset ledge or recessed shelf,  
with a cut-out or aperture for a bag neck,  
20 and a neck piece configured as a shallow tray,  
to sit within the shelf recess,  
to accommodate a protruding bag neck  
within a uniform, say rectangular, overall carton form.
3.  
25 A container package, as in either preceding claim,  
with a retractable (fold-out) pourer spout.
4.  
30 A container package, as in any preceding claim,  
with a retractable (fold-out) handle.
5.  
35 A container package, as in any preceding claim,  
with a lockable closure.
6.  
40 A container package, as in any preceding claim,  
with discrete neck piece insert.
7.  
45 A container package, as in any preceding claim,  
with neck piece (part) integrated with box carton.
8.  
45 A container package, as in any preceding claim,  
with neck piece (part) integrated with bag liner insert.

9.  
A container package, as in any preceding claim,  
with a frangible tamper-evident seal,  
about a removable closure.

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10.  
A container package, as in any preceding claim,  
with a box carton of moisture resistant material,  
such as a sealed or coated board,  
10 or synthetic plastics.

11.  
A container package, as in any preceding claim,  
with a reinforced box carton material,  
15 such as laminated, corrugated or fibre stranded.

12.  
A container package,  
substantially as hereinbefore described,  
20 with reference to, and as shown in,  
the accompanying drawings.

13.  
A BIB container package,  
25 - for liquid or flowable material (contents) -  
comprising a bag inner liner  
and a box carton outer (shell);  
with a bag (neck) location and support element,  
30 configured as any one, or a combination of:

- discrete insert,
- element integral with the bag,  
or some part of the bag,  
35 such as the bag neck or neck rim,
- element integrated with the carton,  
or some part of the carton,  
such as an end flap;

40 to create a (shallow) recess for a protruding bag neck.

45 14.  
A pre-formed, neck piece for a container,  
as claimed in any preceding claims.

15. A container comprising an outer box or carton with an edge recessed panel and an internal bag liner located and retained within the carton by a neck support collar such that a protruding bag neck is inset within the recess.

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16. A BIB carton, with box or carton outer wrap, sleeve or case and bag inner liner element mutually juxtaposed and entrained preparatory to bag contents fill.

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17. A BIB carton of Claim 16 with a pre-fabricated handle.

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18. A BIB carton of Claim 16 with integrated neck collar and handle moulding.

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19. A BIB carton of Claim 16 with integral moulded collar and bag neck.

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20. A location and/or retention element for juxtaposition or interposition between bag liner and outer box or carton.

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21. A BIB carton with a location and/or retention element of Claim 20 captive to a bag neck and entrained by a neck rim.

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22. A BIB assembly of juxtaposed bag inner and box outer elements mutually entrained by an intermediate element.

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